

Response to Office Action dated June 29, 2006
U.S. Application No.: 09/937,331; filed September 21, 2001
Inventor: Kunze et al.
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Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims

- 1.-12. (Cancelled)
13. (Currently Amended) A poker vibrator for densifying a flowing material comprising:
- a vibration unit in which an oscillator with an electric motor is located, the vibrating unit including a vibration flask;
 - a switching unit separated from the vibration unit through an elastic connection;
 - a protective and operating tube housing the vibration flask of the vibration unit;
 - a frequency converter configured to change a mains frequency to a different frequency than the mains frequency and to supply the power for the electric motor;
 - a mounting unit that is integrated into the protective and operating tube and that accommodates the frequency converter, an operating switch and a measurement device; and
 - an evaluation circuit that evaluates measured values detected by the measurement device and that produces a signal based on a measured change in the operating parameter that corresponds to a change in a densified state of the material;
 - wherein a the measurement device that detects at least one operating parameter of the poker vibrator; and

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~~-an evaluation circuit that evaluates measured values detected by the measurement device and that produces a signal based on a measured change in the operating parameter that corresponds to a change in a densified state of the material;~~

wherein

- the at least one operating parameter selected is from the group consisting of a motion of the vibration unit, an oscillatory amplitude of the vibration unit, and an oscillatory frequency of the vibration unit.

14. (Previously Presented) A poker vibrator according to claim 13, wherein the evaluation circuit feeds electrical energy to the measurement device.

15 (Previously Presented) A poker vibrator according to claim 13, wherein the measurement device includes at least one motion measurement device provided in the vibration unit.

16. (Currently Amended) A poker vibrator according to claim 15, wherein the evaluation circuit is provided inside ~~the~~ a switching unit to feed the motion measurement device and evaluate the signals sent from the motion measurement device.

17. (Previously Presented) A poker vibrator according to claim 13, wherein the motion measurement device is includes an acceleration detector.

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18. (Previously Presented) A poker vibrator according to claim 17, wherein a measurement direction of the acceleration detector is generally perpendicular to the longitudinal axis of the vibration unit.

19. (Currently Amended) A poker vibrator according to claim 13, wherein the motion measurement device is a combination of a first acceleration detector and a second acceleration detector that measure accelerations in mutually perpendicular directions from each other.

20. (Previously Presented) A poker vibrator according to claim 19, wherein the measurement directions of both the first and second acceleration detectors are generally perpendicular to the longitudinal axis of the vibration unit.

21. (Previously Presented) A poker vibrator according to claim 13, further comprising a display that illustrates a change in the densified state of the material to an operator.

22-24. Cancelled.